



## The 2004 Paul Rappaport National Renewable Energy and Energy Efficiency Award

The Department of Energy's National Renewable Energy Laboratory (NREL) honors contributions to its mission to advance energy efficiency and renewable energy through the Paul Rappaport National Renewable Energy and Energy Efficiency Award. This national award recognizes outstanding contributions by an individual, team, or organization.

Dr. Paul Rappaport was NREL's founding director—serving from April 1977 to August 1979. Before his appointment to NREL, Rappaport worked for more than 25 years at RCA's David Sarnoff Research Laboratories. A pioneer in his field, Rappaport made many contributions to the advancement of early PV technologies. In 1953 he invented the p-n junction solar beta-voltaic cell—a novel idea in which a solar cell operates using the radiation from nuclear waste. Later he demonstrated the applicability of a number of compound semiconductors to photovoltaic conversion. His early publications are considered classics in the field of photovoltaic basic science. Rappaport, who died in April 1980, was dedicated to the pursuit of excellence in the field of renewable energy research and embodied the spirit of the Paul Rappaport National Renewable Energy and Energy Efficiency Award.

## Award Categories

### Scientific Achievement

For significant contributions to scientific theory or the discovery of a new concept, phenomenon, or process that underpins energy efficiency or renewable energy technologies.

### Innovation

For successful development and commercialization of a new energy efficiency or renewable energy product or process innovation, or for implementing innovative programs that lead to the adoption of energy efficiency or renewable energy technologies by a significant number of people.

### Restrictions

The work of the award winner must show clear and significant contributions to the overall mission of NREL. As with any award, there will be some restrictions on who may be nominated. The following are not eligible: current employees of NREL, the U.S. Department of Energy (DOE) and its other national laboratories, and NREL's managing partners—Midwest Research Institute and Battelle; family members of current employees of NREL, DOE and its national laboratories, and NREL's managing partners—Midwest Research Institute and Battelle; foreign-owned companies or organizations. For companies or organizations to be eligible, the applicant company or organization must be incorporated in the United States but may have a parent company that is incorporated in a foreign country. The individual or team members must be employed in the United States. And any technology must be created, accomplished, and implemented in the United States.



### NREL Mission

*NREL develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals.*

### Previous Winners of the Paul Rappaport National Renewable Energy and Energy Efficiency Award

2003

Ajeet Rohatgi, founding director of the University Center of Excellence for Photovoltaics Research and Education at the Georgia Institute of Technology

2002

Waverly Light and Power, the municipal utility for Waverly, Iowa, which has helped lead the way for wind energy development across the Midwest

# 2004 Paul Rappaport National Renewable Energy and Energy Efficiency Award Nomination Form

Award Category:  
Date Submitted\*:

## Nominee

Name of Individual or Organization:  
Title/Position:  
Employer:

Address:  
City: State: Zip: Country:  
Telephone: Fax No.: E-Mail:

## Principal Nominator

Provide a detailed cover letter of nomination. The nomination letter should highlight the candidate's outstanding contributions and qualifications.

Name of Nominator(s):  
Title/Position:  
Employer:

Address:  
City: State: Zip: Country:  
Telephone: Fax No.: E-Mail:

## Endorsements

Include three to five letters, citing personal knowledge of the nominee's qualifications for the award. No more than one letter of endorsement will be accepted from the same organization for the nominee.

Name:  
Organizational Affiliation:

Name:  
Organizational Affiliation:

Name:  
Organizational Affiliation:

\*If you previously submitted a nomination, be sure to fill out a new nomination form and update and resubmit all supporting information.

### **Abstract**

In 50 words or less, summarize the highlights of the nominee's contributions and qualifications for the award (attach an additional page).

### **Professional History/Vitae**

Include an up-to-date history or vitae for the nominee or organization.

### **Evidence of Technical Accomplishments**

For technical accomplishments, include the following: technical publications, patents, documentation to authenticate development of products, process or other scientific achievement, technical presentations.

### **Submission Procedure**

Nominations are kept active for three years, provided the nominator updates the information and notifies the award coordinator. The nominator may update the nomination at any time during the nomination period. The deadline for receipt of the nomination package is April 2, 2004.

### **Please submit all nomination packages to:**

Janet Fried, Award Coordinator  
National Renewable Energy Laboratory  
1617 Cole Blvd.  
MS1731  
Golden, CO 80401  
303-275-3098  
janet\_fried@nrel.gov

### **For more information, visit:**

[www.nrel.gov/rappaport\\_award/](http://www.nrel.gov/rappaport_award/)

**Nominations must be  
received by April 2, 2004**